



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor named

Inventor : Peter Crane et al.

Appln. No. : 10/051,366

Filed : January 18, 2002

Title : MOVING COIL MICRO ACTUATOR
WITH REDUCED ROTOR MASS

Docket No. : I69.12-0514

Group Art Unit: 2834

Examiner:

Assoc Power
Hicks
4-18-02

ASSOCIATE POWER OF ATTORNEY OR AGENT (37 C.F.R. 1.34)

Assistant Commissioner for Patents
Washington, D.C. 20231

I CERTIFY THAT THIS PAPER IS BEING SENT BY EXPRESS
MAIL, FIRST CLASS, TO THE ASSISTANT COMMISSIONER
FOR PATENTS, WASHINGTON, D.C. 20231, THIS 1 DAY
OF

March, 2002

Dan T. Dietz
PATENT ATTORNEY

Sir:

Please recognize as Associate Attorney or Agent in this case:

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First Named Inventor: Peter Crane et al.

Appln. No.: 10/051,366


- 2 -

Derek J. Berger, Reg. No. 45,401
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Please continue to send all further correspondence regarding this application to the below-named attorney.

Respectfully submitted,

KINNEY & LANGE, P.A.

By: 

David R. Fairbairn, Reg. No. 26,047
THE KINNEY & LANGE BUILDING
312 South 3rd Street
Minneapolis, MN 55415-1002
Telephone: (612) 339-1863 Fax: (612) 339-6580

DRF:ks

POWER OF ATTORNEY



Attorney Docket No.

169.12-0514

#7/Power of Attorney
Hawkins
4/25/02

First Named Inventor : Peter Crane et al.

Title : MOVING COIL MICRO ACTUATOR WITH REDUCED ROTOR MASS

In the patent application:

— identified above (and submitted to the Patent and Trademark Office herewith).

X filed on January 18, 2002 as Application No. 10/051,366.

I appoint the attorneys and agents associated with Customer Number 00164 to prosecute the patent application identified above and to transact all business in the Patent and Trademark Office connected therewith, including full power of association, substitution and revocation.

I ratify all prior actions taken by Kinney & Lange, P.A. or the attorneys and agents mentioned above in connection with the prosecution of the above-mentioned patent application.

I authorize Kinney & Lange, P.A. to mark the appropriate space above and to insert the filing date and application number of the application, as appropriate.

I aver that I am empowered by Seagate Technology LLC to act on behalf of the Assignee, Seagate Technology LLC, in connection with this document and the above application.

Please address all correspondence and telephone calls to Customer Number 00164, attention David R. Fairbairn, Telephone (612) 339-1863, Fax (612) 339-6580.

SEAGATE TECHNOLOGY LLC

Signature:

A handwritten signature in black ink, appearing to read "P. T. Dietz".

Paul T. Dietz, Reg. No. 38,858

Title:

Patent Attorney

Dated:

Feb 27, 2002

ASSIGNMENT

Attorney Docket No. : 169.12-0514

Seagate Docket No. : STL10070

WHEREAS, we Peter Crane of 384 Lawson Avenue East, St. Paul, Minnesota 55101, USA, Wayne A. Bonin of 21 Black Oak Road, North Oaks, Minnesota 55127, USA, Roger L. Hipwell, Jr. of 8080 Curtis Lane, Eden Prairie, Minnesota 55347-1111, USA, and Zine-Eddine Boutaghrou of 307 Lily Pond Lane, Vadnais Heights, Minnesota 55127, USA are the inventor(s) of an invention entitled MOVING COIL MICRO ACTUATOR WITH REDUCED ROTOR MASS that is the subject matter of: (Check all that apply)

- ☐ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. _ filed on _;
- ☒ an application for Letters Patent which has been executed on even date herewith and/or is identifiable in the United States Patent and Trademark Office by Application No. 10/051,366 filed on January 18, 2002; and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. , filed on ; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

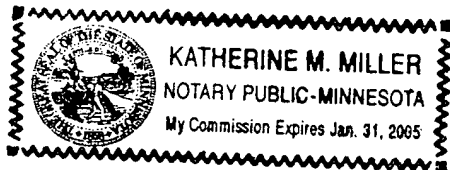
We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired; in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

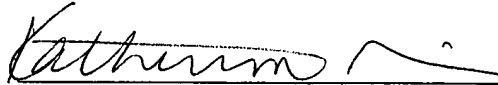


Peter Crane (Inventor)

Subscribed and sworn to before me in the County of _____, State of MN, a
Notary Public, this 8th day of February, 200 02.



(SEAL)



Notary Public

Wayne A. Bonin (Inventor)

Subscribed and sworn to before me in the County of _____, State of _____, a
Notary Public, this _____ day of _____, 200 _____.

Notary Public

(SEAL)

Roger L. Hipwell, Jr. (Inventor)

Subscribed and sworn to before me in the County of _____, State of _____, a
Notary Public, this _____ day of _____, 200 _____.

Notary Public

(SEAL)

Zine-Eddine Boutaghrou (Inventor)

Subscribed and sworn to before me in the County of _____, State of _____, a
Notary Public, this _____ day of _____, 200 _____.

Notary Public

(SEAL)

ASSIGNMENT

Attorney Docket No. : I69.12-0514

Seagate Docket No. : STL10070

WHEREAS, we Peter Crane of 384 Lawson Avenue East, St. Paul, Minnesota 55101, USA, Wayne A. Bonin of 21 Black Oak Road, North Oaks, Minnesota 55127, USA, Roger L. Hipwell, Jr. of 8080 Curtis Lane, Eden Prairie, Minnesota 55347-1111, USA, and Zine-Eddine Boutaghou of 307 Lily Pond Lane, Vadnais Heights, Minnesota 55127, USA are the inventor(s) of an invention entitled MOVING COIL MICRO ACTUATOR WITH REDUCED ROTOR MASS that is the subject matter of: (Check all that apply)

- ☐ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. filed on ;
- ☒ an application for Letters Patent which has been executed on even date herewith and/or is identifiable in the United States Patent and Trademark Office by Application No. 10/051,366 filed on January 18, 2002; and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. filed on ; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

Peter Crane (Inventor)

Subscribed and sworn to before me in the County of _____, State of _____, a
Notary Public, this ____ day of _____, 200 ____.

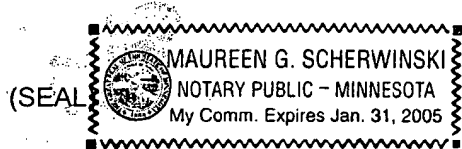
Notary Public

(SEAL)

Wayne A. Bonin

Wayne A. Bonin (Inventor)

Subscribed and sworn to before me in the County of Hennepin, State of Minnesota, a
Notary Public, this 9th day of February, 200 2.



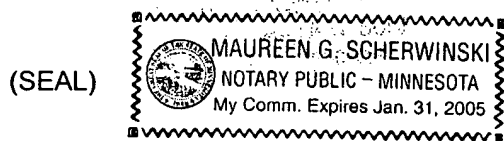
Maureen Scherwinski

Notary Public

R. L. Hipwell, Jr.

Roger L. Hipwell, Jr. (Inventor)

Subscribed and sworn to before me in the County of Hennepin, State of Minnesota, a
Notary Public, this 9th day of February, 200 2.



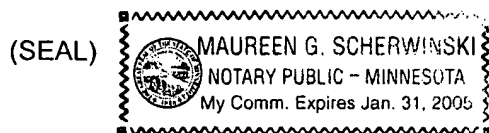
Maureen Scherwinski

Notary Public

Zine-Eddine Boutaghrou

Zine-Eddine Boutaghrou (Inventor)

Subscribed and sworn to before me in the County of Minnesota, State of Hennepin, a
Notary Public, this 9th day of February, 200 2.



Maureen Scherwinski

Notary Public



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Examiner:

SUBMISSION UNDER 37 C.F.R. 3.73(b)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Seagate Technology LLC, a Delaware corporation, is an owner of the patent application identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel __, Frame __, or a copy of which is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy of which is attached.

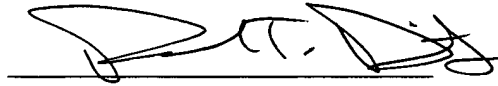
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy of which is attached.

3. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy of
which is attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on
behalf of Seagate Technology LLC.

Signature:



Date:

Feb 27, 2002

Title:

Paul T. Dietz, Esq., Reg. No. 38,858
Patent Attorney